4 - 2323

α) $\omega = 15 - 11 = 4$.

β) $S_{40} = \frac{40}{2} \cdot (2 \cdot 3 + 39 \cdot 4) = 20 \cdot 162 = 3240$

γ) $\alpha_\nu = 120 \Rightarrow 3 + (\nu - 1) \cdot 4 = 120$

$\Rightarrow 4\nu = 121 \Rightarrow \nu = \frac{121}{4} \notin \mathbb{N}$ 0×1

δ) $\alpha_{40} = 3 + 39 \cdot 4 = 159$.

$\alpha_\nu = 235 \Rightarrow 3 + 4(\nu - 1) = 235 \Rightarrow 4\nu = 236$

$\Rightarrow \nu = 59$.

οπότε $S = \alpha_{40} + \alpha_{41} + \cdots + \alpha_{59}$

$= S_{59} - S_{39} = \frac{59}{2} \cdot (2 \cdot 3 + 4 \cdot 58) - \frac{39}{2} \cdot (2 \cdot 3 + 3\varepsilon$

$= 59 \cdot 119 - 39 \cdot 79 = 7021 - 3081 = 3940$